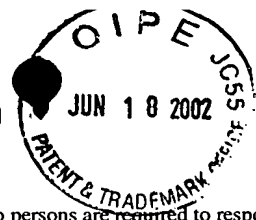


Please type a plus sign (+) inside this box → [+]



Approved for use through 10/31/2002 OMB 0661-0031
Patent and Trademark Office; U. S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

SHEET

1 of 2

COMPLETE IF KNOWN

Application Number	10/049,204
Confirmation Number	Not Yet Assigned
Filing Date	February 8, 2002
First Named Inventor	Angell et al.
Group Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	7728

U. S. PATENT DOCUMENTS

EXAMINER INITIALS*	Cite No. ¹	U.S. PATENT DOCUMENT Number	Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
CB		3,316,691		Sesny et al.	5/2/1967	
		4,123,390		Sherman et al.	10/31/1978	
		3,844,890		Horikoshi et al.	10/29/1974	
		4,746,456		Kud et al.	5/24/1988	
		2,954,347		St. John et al.	9/27/1960	
		3,308,067			3/7/1967	
		3,455,839		Rauner	7/15/1969	
		3,519,570		McCarty	7/7/1970	
		3,553,139		McCarty	1/5/1971	
		3,600,319		Gedge III et al.	8/17/1971	
		3,646,015		Hamilton	2/29/1972	
		3,812,044		Connor et al.	5/21/1974	
		3,893,929		Basadur	7/8/1975	
		3,959,230		Hays	5/25/1976	
		4,000,093		Nicol et al.	12/28/1976	
		4,033,718		Holcombe et al.	7/5/1977	
		4,101,457		Place et al.	7/18/1978	
		4,261,868		Hora et al.	4/14/1981	
		4,265,779		Gandolfo et al.	5/5/1981	
		4,284,532		Leikhim et al.	8/18/1981	
		4,285,841		Barrat et al.	8/25/1981	
		4,412,934		Chung et al.	11/1/1983	
		4,435,307		Barbesgaard et al.	3/6/1984	
		4,483,781		Hartman	11/20/1984	
		4,489,455		Spendel	12/25/1984	
		4,489,574		Spendel	12/25/1984	
		4,507,219		Hughes	3/26/1985	
		4,537,706		Severson Jr.	8/27/1985	
		4,545,784		Sanderson	10/8/1985	
		4,548,744		Connor	10/22/1985	
		4,597,898		Vander Meer	7/1/1986	
		4,634,551		Burns et al.	1/6/1987	
		4,702,857		Gosselink	10/27/1987	
		4,704,233		Hartman et al.	11/3/1987	
		4,711,730		Gosselink et al.	12/8/1987	
		4,721,580		Gosselink	1/26/1988	
		4,790,856		Wixon	12/13/1988	
		4,861,502		Caswell	8/29/1989	
		4,877,896		Maldonado et al.	10/31/1989	
		4,915,854		Mao et al.	4/10/1990	
		4,966,723		Hodge et al.	10/30/1990	
		4,968,451		Scheibel et al.	11/6/1990	
		5,071,594		Borland et al.	12/10/1991	
		5,075,501		Borland et al.	12/24/1991	
		5,114,606		Van Vliet et al.	5/19/1992	
		5,194,416		Jureller et al.	3/16/1993	
✓		5,244,594		Favre et al.	9/14/1993	



FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS*	Cite No. ¹	FOREIGN PATENT DOCUMENT		Kind Code ⁵ (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T ⁶
CB		EP	0 229 616	A2	Yorozu et al.	7/22/1987		
		EP	0,341,947	B1	Lagerwaard et al.	11/15/1989		
		EP	0,111,984	B1	Gosselink et al.	6/27/1984		
		EP	0,199,405	B1	Venegas	10/29/1992		
		EP	0,251,446	B1	Wells et al.	1/7/1988		
		EP	0,354,016	B1	Starch	2/7/1990		
		EP	0,066,915	B1	Koster et al.	12/15/1982		
		EP	0,111,965	B1	Oh et al.	6/27/1984		
		EP	0,112,592	B1	Gosselink	7/4/1984		
		EP	0,130,756	B2	Bott et al.	1/9/1985		
		EP	0,133,354	B1	Banks et al.	2/20/1985		
		EP	0,193,360	A2	Kermode et al.	9/3/1986		
		EP	0,199,405	A2	Venegas	10/29/1986		
		EP	0,544,440	A2	Delwel et al.	6/2/1993		
		EP	0,544,490	A1	Martens et al.	6/2/1993		
		EP	0,549,271	B1	Hage et al.	6/30/1993		
		EP	0,549,272	A1	Hage	6/30/1993		
		FR	891,661					
		GB	2,075,028	A	Bargesgaard	11/11/1981		
		GB	2,095,275	A	Murata	9/29/1982		
	GB	1,243,784			8/25/1971			
	GB	1,296,839			11/22/1972			
	GB	1,372,034			10/30/1974			
	GB	1,304,803			1/31/1973			
	WO	86/02832		Ross et al.	5/22/1986			
✓	WO	92/06154		Mao et al.	4/16/1992			

RECEIVED
JUN 21 2002
TC 1700

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

EXAMINER INITIALS*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ⁶
CB		Kirk Othmer Encyclopedia of Chemical Technology, Third Edition, Volume 7	
		Pages 430-447	

EXAMINER <i>Charles Boyer</i>	DATE CONSIDERED <i>9/1/02</i>
-------------------------------	-------------------------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, D.C. 20231.